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#143696
of Year 1919 (British)

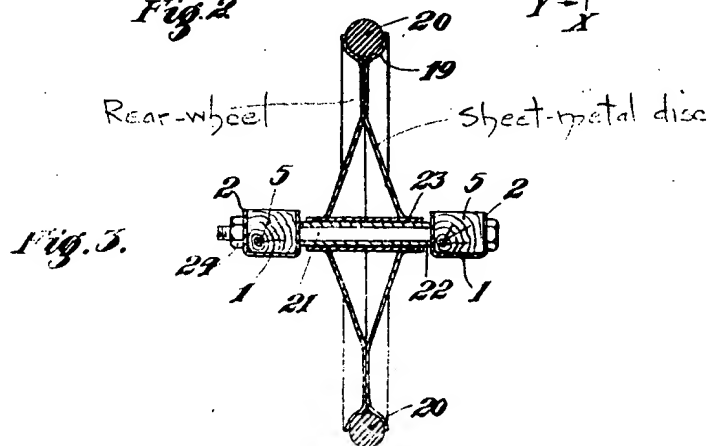
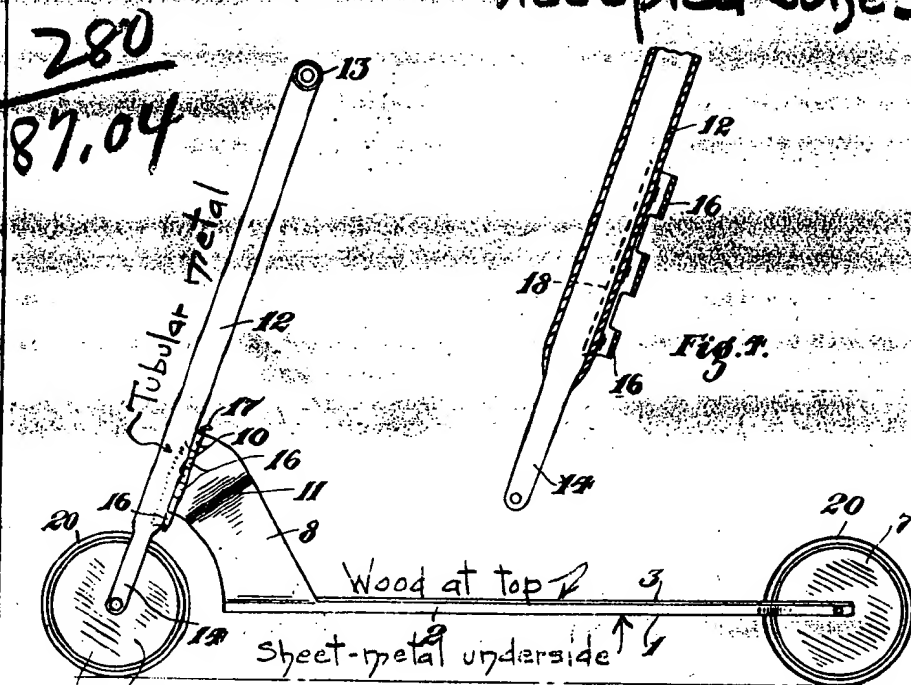
143,696. ALLT & another's COMPLETE SPECIFICATION.

(1 SHEET.)

Sheet-metal Construction

Accepted June 3-1920

[This Drawing is a reproduction of the Original on a reduced scale]



143,696

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SPECIFICATION

Application Date. Apr. 25, 1919. No. 10,367/19.

Complata Left, Oct. 23, 1919.

Complata Accepted, June 3, 1920.

PROVISIONAL SPECIFICATION.

1 Improved Foot Cycle or Scooter.

JOY ALLI, Aeronautical Engineer, and CHARLES LOCK, 5, Rosemary Road, Clacton-on-Sea, do hereby declare the invention to be as follows:—

In reference to toys of the "wooter" or "toy ride" device a board or rest is mounted on one or more wheels at the rear supported at the front end on a front steering member wheel, the device being adapted to be used by placing one's foot on the board and propelling it along by pressure on the ground with the

The invention is to provide improvements in devices of the above type whereby they are generally improved in appearance, construction, and of light weight when compared with similar devices.

In the invention, the greater part of the device is constructed of metal and the joints between the metal parts are preferably effected by electric spot welding, or other suitable methods may be employed. The primary part comprising the sheet metal consists of the foot board which is constituted of a length of sheet metal of straight or curved, or both and on the outer edges of the metal is secured a length of wood or other similar material in shape to the space within the metal, and is held thereon by pressure or other means attaching the metal to the wood. The metal extends along each edge of the wood, and certain parts extending transversely through the wood also extend

the foot board may be formed with rear extensions in which a wheel or wheels provided at the rear end of the board extending transversely through the extensions of flanged or without wood fitting. Where only one wheel is provided it may be formed with side bosses on a sleeve projecting from the wheel and the outer ends of this sleeve may extend to the rear extensions (either curved or otherwise) such a construction lengthened bearing surface for the wheel on the said end of the foot board is also recessed to receive that portion of the rim and the said bosses.

At the front end of the foot board is provided with a fitting for the pivoted

the front steering member or fork. Such fitting preferably
 piece (or pieces) of sheet metal folded upon itself, that part where
 being adapted to form part of the pivotal connection with the
 member and being shaped at an angle for the angular support of the
 member and adapted to receive the pintle or pivot pin which serves to
 foot board and steering member together. The returned parts of
 immediately to the rear of the fold or hinge may be attached together
 welding or other ways, and are then splayed or bent outwardly
 or less of an arch the sides of which extend to and are attached
 end of the foot board, the preferred method of attachment being
 other attachment of the ends of the fitting to the sheet metal
 foot board, such ends being extended through the upper board
 face of the foot board. To prevent collapse of the arch part of
 block of wood may be fitted into this part and bears on the foot
 modification may consist of side flanges on the metal fitting for
 the same.

member or fork is generally angularly disposed and in the
 consists of a length of cycle or like tubing bifurcated at one end
 within the contour of the tubing for the attachment of a wheel
 at the opposite end for the attachment of a handle thereto.
 of the handle and bifurcated ends is provided a hinge or pivot
 bonding with that of the fold on the said fitting and comprising
 loops adapted to take between similar loops on the fold of the
 loops on the two parts are secured together by the said pivot pin
 board is supported on the member by the loops on the
 on and being supported by the loops on the said member.
 hinge portion on the steering member may form part thereof or
 welding or in any other suitable manner.

are preferably of disc form, consisting of two discs secured
 the edges splayed apart for receiving the tyre and the middle
 with hubs or bosses for free rotation on bearing pins or axles.
 provides a scooter of good appearance, which is strong, and
 large numbers very inexpensively.

25th day of April, 1919.

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 Agents for the Applicants.

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COMPLETE SPECIFICATION.

An Improved Foot Cycle or Scooter.

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PERCY ALLT, Aeronautical Engineer, and CHARLES LOCK,
 of 85, Rosemary Road, Clacton-on-Sea, do hereby declare the
 invention and in what manner the same is to be performed, to
 described and ascertained in and by the following statement:—

has reference to toys of the "scooter" or "joy ride" device
 foot board or seat is mounted on one or more wheels at the rear
 totally supported at the front end on a front steering member
 a wheel, the device being adapted to be used by placing one
 rd and propelling it along by pressure on the ground with the

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this invention is to provide improvements in devices of the

above character whereby they are generally improved in appearance, substantially strengthened in construction, and of light weight when compared with known forms of similar devices.

According to this invention, the greater part of the device is constructed of sheet metal and the joints between the metal parts are preferably effected by auto-welding; e.g., electric spot welding, or other suitable methods may be adopted for this purpose. The primary part comprising the sheet metal construction consists of the foot board frame or support which is constituted of a length of sheet metal with flanged or dished edges, either straight or curved or both, and on this length of sheet metal is secured a length of wood or other similar material which corresponds in shape to the space within the flanges, and is held thereon by means of screw pressure or other means attaching the metal to the wood. The flanged edges of the metal extend along each edge of the wood, and certain attachments or parts extending transversely through the wood may also extend through said flanges.

The rear end of the footboard frame may be formed with rear extensions in which is mounted the spindle of the wheel or wheels provided at the rear end of the foot board, such spindle extending transversely through the extensions of flanged metal either with or without wood fitting. Where only one wheel is provided at the back, this may be mounted on a sleeve projecting from each face of the wheel the outer ends of this sleeve extending to the inner faces of the rear extensions (either curved or otherwise). Such a construction constitutes a lengthened bearing surface for the wheel on the said spindle. The rear end of the foot board is also recessed to receive the wheel.

The forward end of the foot board frame is provided with a fitting for the pivoted attachment of the front steering member or fork. Such fitting preferably comprises a piece of sheet metal folded upon itself, that part where the fold occurs being adapted to form part of the pivotal connection with the steering member and being shaped at an angle for the angular support of the steering member and adapted to receive the pintle or pivot pin which serves to connect the foot board frame and steering member together. The returned parts of the fitting immediately to the rear of the fold or hinge may be attached together by autogenous welding or other ways, and are then splayed or bent outwardly to form more or less of an arch the sides of which extend to and are attached to the front end of the foot board frame, the preferred method of attachment being by welding or other attachment of the ends of the fitting to the sheet metal support of the foot board, such ends may be extended through the upper board or wearing surface of the foot board. To prevent collapse of the arch part of the fitting a block of wood or a metal reinforcement may be fitted into this part so as to bear on the foot board. A modification may consist of side flanges on the metal fitting for strengthening the same.

The steering member or fork is generally angularly disposed and in the present case consists of a length of cycle or like tubing bifurcated at one end for the attachment of a wheel and constructed at the opposite end for the attachment of a handle thereto. Intermediate of the handle and the bifurcated end is provided a hinge or pivot portion corresponding with that of the fold on the said fitting and comprising two or more loops adapted to take between similar loops on the fold of the fitting. The loops on the two parts are secured together by the said pivot pin and the foot board frame is supported on the steering member by the loops on the fitting resting on and being supported by the loops on the said member.

The loop or hinge portion on the steering member may form part thereof or be attached by welding, or in any other suitable manner.

The wheels are of sheet metal of disc form, and may consist of two discs secured together with the edges splayed apart for receiving the tyre and the middle portion fitted with a hub or boss for free rotation on a fixed sleeve upon an axle bearing pin.

detachably connection with the steering column, the engine from being connected to the rear wheel by laminated springs from which springs connecting means to the footboard were provided to additionally support the latter.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. A toy "scooter" or foot cycle of the type referred to wherein the foot board frame or support and wheels are formed from sheet metal and the steering member comprises a tubular member having a bifurcated end, the prongs of which are adapted as bearings for the axis pin of the front wheel of the scooter, the steering member and footboard and the other elements of the scooter being detachably connected as and for the purpose specified.

2. A toy "scooter" or foot cycle of the type referred to wherein the foot board frame or support is formed from sheet metal cut to the desired shape and having the longitudinal edges flanged to embrace a board, the rear end of said foot board frame being slotted centrally, and the adjacent material adapted to provide a bearing for the rear wheel which rotates within the said slot, while the forward end of said foot board frame is provided with a structure of sheet metal in the form of a tapering arch which may be reinforced by enclosing a wooden block of similar shape, the external upper face of said arch being provided with suitable means for detachably connecting the steering member.

3. In a construction as claimed in Claim 2, the provision of a steering member comprising a hollow tube bifurcated at one end, each prong of said bifurcation being formed so as to provide therein suitable bearings for the forward wheel axle, while the other end of the steering member is provided with hand grips disposed substantially at right angles to the axis of the tube, the said steering member being provided with means for detachably connecting the same to the external upper face of the said arch.

4. In a toy scooter as claimed in Claims 1 or 2, the provision of an arch at the forward end of said foot board frame formed by folding sheet metal upon itself in such manner that the upper external surface comprises tubular parts for use in connecting the steering member, and the arch portion is connected to said tubular parts by an integral portion of double the thickness of the metal sheet.

5. A toy scooter comprising a sheet metal foot board frame and bearings for the rear wheel, a sheet metal arched forward portion on the foot board frame adapted to be detachably connected to the steering member, substantially as described with reference to the accompanying drawings.

6. In a toy scooter as claimed in the preceding claim, the provision of a surface of rotation for each wheel hub, comprising a coaxial sleeve within the hub mounted on an axle pin and held against rotation, substantially as described.

Dated this 23rd day of October, 1919.

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